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**REMARKS**

In the Final Office Action, Examiner Polk rejected pending claims 1-12, 16 and 17 on various grounds. The Applicant responds to each rejection as subsequently recited herein:

- A. Examiner Polk rejected pending claim 1 under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 5,422,519 to *Russell*

The Applicant has thoroughly considered Examiner Polk's remarks concerning the patentability of independent claim 1 over *Russell*. The Applicant has also thoroughly read *Russell* for a second time. To warrant this 35 U.S.C. §102(b) rejection of independent claim 1, *Russell* must show each and every limitation of independent claim 1 in as complete detail as is contained in independent claim 1. See, MPEP §2131. Again, the Applicant respectfully traverses this §102(b) rejection of independent claim 1, because *Russell* fails to disclose and teaches away from "wherein said first electric conductor is operable to transfer a magnetic energy and an electric energy across an interface to said second electric conductor in response to a reception of an alternating electric signal" as recited in independent claim 1.

Specifically, as illustrated in FIGS. 1-3, *Russell* teaches an electric isolation of core 2 from a core 3 by an insertion of a skin interface 4 between core 2 and core 3. See, Russell at column 2, line 66 to column 3, line 14. As is well known in the art, to establish an electrical isolation of core 2 from core 3, there must be zero voltage drop across skin interface 4 and zero current flow through skin interface 4. Consequently, there must be no electric energy transferred across skin interface 4 to electrically isolate core 2 from core 3.

To transfer power from circuit 10 to circuit 11 as illustrated in FIGS. 2-5, *Russell* teaches a generation of a magnetic field by core 2 in response to an electric voltage signal applied by circuit 10 to winding 5 whereby the magnetic field of core 2 crosses the skin interface 4 to cut through core 3 and winding 6 to thereby induce a generation of a voltage signal by core 3. Conversely, to transfer power from circuit 11 to circuit 10, *Russell* teaches a generation of a magnetic field by core 3 in response

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to an electric voltage signal applied by circuit 11 to winding 6 whereby the magnetic field of core 3 crosses the skin interface 4 to cut through core 2 and winding 5 to thereby induce a generation of a voltage signal by core 2. See, Russell at column 3, lines 18 to 29.

In summary, *Russell* clearly discloses electric conductor 5 being operable to transfer a magnetic energy via core 2 across skin interface 4 to electric conductor 6 in response to a reception of an alternating electric signal by conductor 5 from circuit 10, and electric conductor 6 operable to transfer a magnetic energy via core 3 across skin interface 4 to electric conductor 5 in response to a reception of an alternating electric signal by conductor 6 from circuit 11. And, by teaching an electric isolation of cores 2 and 3, *Russell* unequivocally teaches away from electric conductor 5 being operable to transfer an electric energy across skin interface 4 to electric conductor 6 in response to a reception of an alternating electric signal by conductor 5 from circuit 10, and electric conductor 6 operable to transfer an electric energy across skin interface 4 to electric conductor 5 in response to a reception of an alternating electric signal by conductor 6 from circuit 11. Otherwise, cores 2 and 3 would not be electrically isolated.

Withdrawal of the rejection of independent claim 1 under 35 U.S.C. §102(b) as being anticipated by *Russell* is therefore respectfully requested.

B. Examiner Polk rejected pending claims 5-9 under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 3,742,408 to *Jaeger*

The Applicant has thoroughly considered Examiner Polk's remarks concerning the patentability of claims 5-9 over *Jaeger*. The Applicant has also thoroughly read *Jaeger* for a second time. To warrant this 35 U.S.C. §102(b) rejection of independent claims 5-9, *Jaeger* must show each and every limitation of independent claim 5 in as complete detail as is contained in independent claim 5. See, MPEP §2131. Again, the Applicant respectfully traverses this §102(b) rejection of independent claim 5, because *Jaeger* fails to disclose, teach or suggest "wherein said

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first electric conductor is operable to transfer a first magnetic energy and a first electric energy across an interface to said second electric conductor in response to a reception of the first electric signal" as recited in independent claim 5.

Specifically, *Jueger* discloses a power source 10, an electric conductor 18 in electrical communication with power source 10 to thereby receive a first electric signal from power source 10, and an electric conductor 28 in electrical communication with a load 20. *Jaeger* teaches an interconnection of a toroid 12 and a toroid 22 by a single loop 30 across an air interface between toroids 12 and 22, wherein electric conductor 18 is operable to transfer electric energy across the air interface via toroid 12, loop 30 and toroid 22 to electric conductor 28 (i.e., a flow of an electric current through loop 30 as induced by toroid 12, which is energized by the flow of current through conductor 18 as supplied by power source 10). *Jueger* fails to teach or suggest electric conductor 18 being operable to transfer magnetic energy across the air interface via toroid 12 and toroid 22 to electric conductor 28 (i.e., a flow of magnetic flux lines from toroid 12 across the air interface to toroid 22 that is induced by the flow of current through conductor 18 as supplied by power source 10).

Withdrawal of the rejection of independent claim 5 under 35 U.S.C. §102(b) as being anticipated by *Jaeger* is therefore respectfully requested.

Claims 6-9 depend from independent claim 5. Therefore, dependent claims 6-9 include all of the elements and limitations of independent claim 5. It is therefore respectfully submitted by the Applicant that dependent claims 6-9 are allowable over *Jueger* for at least the same reason as set forth with respect to independent claim 5. Withdrawal of the rejection of claims 6-9 under 35 U.S.C. §102(b) as being anticipated by *Jaeger* is respectfully requested.

C. Examiner Polk rejected pending claim 2 under 35 U.S.C. §103(a) as unpatentable over U.S. Patent No. 5,422,519 to *Russell* in view of U.S. Patent No. 5,521,573 to *Inoh et al.*

Claim 2 depends from independent claim 1. Therefore, dependent claim 2 includes all of the elements and limitations of independent claim 1. It is therefore

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respectfully submitted by the Applicant that dependent claim 2 is allowable over *Russell* in view of *Inoh* for at least the same reason as set forth with respect to independent claim 1. Withdrawal of the rejection of dependent claim 2 under U.S.C. §103(a) as being patentable over *Russell* in view of *Inoh* is therefore respectfully requested.

- D. Examiner Polk rejected pending claim 3 under 35 U.S.C. §103(a) as unpatentable over U.S. Patent No. 5,422,519 to *Russell* in view of U.S. Patent No. 5,814,900 to *Esser et al.*

Claim 3 depends from independent claim 1. Therefore, dependent claim 3 includes all of the elements and limitations of independent claim 1. It is therefore respectfully submitted by the Applicant that dependent claim 3 is allowable over *Russell* in view of *Esser* for at least the same reason as set forth with respect to independent claim 1. Withdrawal of the rejection of dependent claim 3 under U.S.C. §103(a) as being patentable over *Russell* in view of *Esser* is therefore respectfully requested.

- E. Examiner Polk rejected pending claim 4 under 35 U.S.C. §103(a) as unpatentable over U.S. Patent No. 5,422,519 to *Russell* in view of U.S. Patent No. 6,087,694 to *Ohno et al.*

Claim 4 depends from independent claim 1. Therefore, dependent claim 4 includes all of the elements and limitations of independent claim 1. It is therefore respectfully submitted by the Applicant that dependent claim 4 is allowable over *Russell* in view of *Ohno* for at least the same reason as set forth with respect to independent claim 1. Withdrawal of the rejection of dependent claim 4 under U.S.C. §103(a) as being patentable over *Russell* in view of *Ohno* is therefore respectfully requested.

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- F. Examiner Polk rejected pending claim 10 under 35 U.S.C. §103(a) as unpatentable over U.S. Patent No. 3,742,408 to *Jaeger* in view of U.S. Patent No. 5,521,573 to *Inoh* et al.

Claim 10 depends from independent claim 5. Therefore, dependent claim 10 includes all of the elements and limitations of independent claim 5. It is therefore respectfully submitted by the Applicant that dependent claim 10 is allowable over *Jaeger* in view of *Inoh* for at least the same reason as set forth with respect to independent claim 5. Withdrawal of the rejection of dependent claim 10 under U.S.C. §103(a) as being patentable over *Jaeger* in view of *Inoh* is therefore respectfully requested.

- G. Examiner Polk rejected pending claim 11 under 35 U.S.C. §103(a) as unpatentable over U.S. Patent No. 3,742,408 to *Jaeger* in view of U.S. Patent No. 5,814,900 to *Esser* et al.

Claim 11 depends from independent claim 5. Therefore, dependent claim 11 includes all of the elements and limitations of independent claim 5. It is therefore respectfully submitted by the Applicant that dependent claim 11 is allowable over *Jaeger* in view of *Esser* for at least the same reason as set forth with respect to independent claim 5. Withdrawal of the rejection of dependent claim 11 under U.S.C. §103(a) as being patentable over *Jaeger* in view of *Esser* is therefore respectfully requested.

- H. Examiner Polk rejected pending claim 12 under 35 U.S.C. §103(a) as unpatentable over U.S. Patent No. 3,742,408 to *Jaeger* in view of U.S. Patent No. 6,087,694 to *Ohno* et al.

Claim 12 depends from independent claim 5. Therefore, dependent claim 12 includes all of the elements and limitations of independent claim 5. It is therefore respectfully submitted by the Applicant that dependent claim 12 is allowable over *Jaeger* in view of *Ohno* for at least the same reason as set forth with respect to independent claim 5. Withdrawal of the rejection of dependent claim 12 under U.S.C.

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§103(a) as being patentable over *Jaeger* in view of *Ohno* is therefore respectfully requested.

- I. Examiner Polk rejected pending claim 16 under 35 U.S.C. §103(a) as unpatentable over U.S. Patent No. 3,742,408 to *Jaeger* in view of U.S. Patent No. 4,893,332 to *Brown* et al.

The Applicant has thoroughly considered Examiner Polk's remarks concerning the patentability of independent claim 16 over *Jaeger* in view of *Brown*. The Applicant has also thoroughly read *Jaeger* and *Brown* for a second time. To warrant this 35 U.S.C. §103(a) rejection of independent claim 16, all the claim limitations recited in claim 16 must be taught or suggested by the combination of *Jaeger* and *Brown*. See, MPEP §2143. Again, the Applicant respectfully traverses this §103(a) rejection of independent claim 16, because *Jaeger* and *Brown* in combination fails to disclose, teach or suggest "means for capacitively coupling said third power source and said third load when said first power source and said first load are inductively coupled and when said second power source and said second load are inductively coupled" as recited in independent claim 16.

Specifically, Examiner Harris has correctly recognized *Jaeger*'s failure to disclose, teach or suggest the aforementioned limitation of claim 16. A careful review of *Brown* reveals that *Brown* also fails to disclose, teach or suggest the aforementioned limitation of claim 16. Specifically, as illustrated in FIGS. 2 and 5, *Brown* discloses a capacitive coupling of a power source in the form of inductively coupled telephone lines 102 and 103 to a load in the form of bridge rectifier 106 via capacitors 104 and 105. See, *Brown* at column 3, line 20 to column 4, line 2. With the inductively coupled telephone lines 102 and 103 serving as the "third power source" recited in independent claim 16, and the bridge rectifier 106 serving as the "third load" recited in independent claim 16, *Brown* clearly teaches or suggests a "first power source" and "first load" being "inductively coupled" and a "second power source" and "second load" being "inductively coupled" as required by independent claim 16.

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Withdrawal of the rejection of independent claim 16 under 35 U.S.C. §103(a) as being unpatentable over *Jaeger* in view of *Brown* is therefore respectfully requested.

- J. Examiner Polk rejected pending claim 17 under 35 U.S.C. §103(a) as unpatentable over U.S. Patent No. 3,742,408 to *Jaeger* in view of U.S. Patent No. 4,893,332 to *Brown* et al.

The Applicant has thoroughly considered Examiner Polk's remarks concerning the patentability of independent claim 17 over *Jaeger* in view of *Brown*. The Applicant has also thoroughly read *Jaeger* and *Brown* for a second time To warrant this 35 U.S.C. §103(a) rejection of independent claim 17, all the claim limitations recited in claims 14-17 must be taught or suggested by the combination of *Jaeger* and *Brown*. See, MPEP §2131. Again, the Applicant respectfully traverses this §103(a) rejection of independent claim 17, because *Jaeger* and *Brown* in combination fails to disclose, teach or "means for capacitively coupling said third power source and said load when said first power source is providing the first electric signal and said second power source is providing the second electric signal" as recited in independent claim 17.

Specifically, Examiner Harris has correctly recognized *Jaeger*'s failure to disclose, teach or suggest the aforementioned limitation of claim 17. A careful review of *Brown* reveals that *Brown* also fails to disclose, teach or suggest the aforementioned limitation of claim 17. Specifically, as illustrated in FIGS. 2 and 5, *Brown* discloses a capacitive coupling of a power source in the form of inductively coupled telephone lines 102 and 103 to a load in the form of bridge rectifier 106 via capacitors 104 and 105. See, *Brown* at column 3, line 20 to column 4, line 2. With the inductively coupled telephone lines 102 and 103 serving as the "third power source" recited in independent claim 16, and the bridge rectifier 106 serving as the "load" recited in independent claim 16, *Brown* clearly to teach or suggest a "first power source" providing "a first electric signal" and a "second power source" providing "a second electric signal" as required by independent claim 17.

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Withdrawal of the rejection of independent claim 17 under 35 U.S.C. §103(a) as being unpatentable over *Jaeger* in view of *Brown* is therefore respectfully requested.

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**SUMMARY**

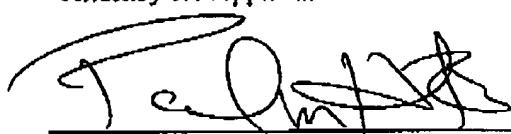
Examiner Polk's anticipation and obviousness rejections have been obviated by the remarks supporting an allowance of claims 1, 5 16 and 17 over the cited art. The Applicant respectfully submits that claims 1-12, 16 and 17 fully satisfy the requirements of 35 U.S.C. §§ 102, 103 and 112. In view of the foregoing, favorable consideration and early passage to issue of the present application is respectfully requested. If any points remain in issue that may best be resolved through a personal or telephonic interview, Examiner Polk is respectfully requested to contact the undersigned at the telephone number listed below.

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Respectfully submitted,  
**DEMETRI GIANNOPoulos ET AL.**

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